Propertie Cold

TYPE OR PRINT IN BLACK INK (For instructions, see booklet: 'How to File an Application to Appropriate Water in California*)



California Environmental Protection Agency
State Water Resources Control Board

State Water Resources Control Board

CONTROL BOARD P.O. Box 2000, Sacramento. CA 95812-2000 Tel: (916) 341-5300 Fax: (916) 341-5400 www.waterrights.ca.gov

APPLICATION NO. A 315 AD

APPLICATION TO APPROPRIATE W

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elephone	(650)	876	/	94060 C	.LEAPLINK	e obes	CA 954	23
x	030)	0 17-1	0138	CEL	L- 916	834-61	65	
mail			 					
NERSHIP IN ole Owner imited Partners orporation provide a copy of your OJECT DESC of construction	chip* partnership agreem CRIPTION activity, are	☐ Limited L ☐ Business ☐ Joint Ventuent. (Provide a lea to be grade	Jability Comp Trust ture	iption of your	☐ Husb ☐ Other		Ownership	
	Attachment No	-			SEASON			.
	Attachment No	SION/STO	DRAGE AM		SEASON			. - - -
PURPOSE OF USE	Attachment No	SION/STO	DRAGE AMO	OUNT AND		STORAGE		
PURPOSE OF USE	Attachment No SE, DIVER AM	DIRECT	PRAGE AMO	OUNT AND F DIVERSION Ending date	SEASON AMOUNT Acre-feet	SEASON OF	COLLECTION	
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POSE OF US PURPOSE OF USE ation, domestic, etc.) Attachment No. al combined an ervoir storage in anty in which di essor's Parcel N CES AND PO Inces and Points POD / □ PORI ance □ PORI	Attachment No SE, DIVER AM Rate (cfs or gpd)* construct version is lo lumber(s): DINTS OF s of Diversio # [MAS]	DIRECTOUNT Acre-feet per year Oy direct dive am offstrecated: SAN DIVERSIC	PRAGE AMO F DIVERSION SEASON OF Beginning date (month & day) * If rate is less ersion and stor eam under MATSO ON/REDIVE	F DIVERSION Ending date (month & day) s than 0.025 cubic for age during any ground (If undo County in whice County in whice County in whice County in tributary tributary	AMOUNT Acre-feet per year cect per second (c y one year will to Re	SEASON OF (Beginning date (month & day) 12/15	Ending date (month & day) 4/30 day (gpd). acre-feet. PP-UGSTOR.)	
POSE OF US PURPOSE OF USE ation, domestic, etc.)	Attachment No SE, DIVER AM Rate (cfs or gpd)* nount taken be s: 🖾 onstreat version is loo lumber(s): DINTS OF s of Diversio # [NK5] COCCEDIO #	DIRECTOUNT Acre-feet per year Oy direct dive am offstrecated: SAN DIVERSIC	PRAGE AMO F DIVERSION SEASON OF Beginning date (month & day) * If rate is less ersion and stor eam under MATSO ON/REDIVE	F DIVERSION Ending date (month & day) s than 0.025 cubic for age during any ground (If under County in whice ERSION	AMOUNT Acre-feet per year ceet per second (c y one year w erground storag ch water will	SEASON OF (Beginning date (month & day) 17/15 Is), use gallons per- vill be 1 ge, attach Form A I be used: 56	Ending date (month & day) 4/30 day (gpd). acre-feet. PP-UGSTOR.) H MATSC	

APP 03/04

☐ See Attachment No.

N281 415.34 Zaro3 E1469,108.4

	b. State P	lanar and F	ublic Land Su	urvey Coo	rdinate Descriptio				
	POD/ PORD		LIFORNIA PRDINATES	ZONE	HITIW SI TAION	IN SECTION	TOWN	RANGE	BASEAN
ı	#		NAD 27)	,	(40-acre subdivisi	on)	-SHIP		MERIDIA
5	1 ,	2	OO ANG	<u>-</u>	- 1/ 05 -				
7		100	700		NE "NE	8	185	4W	n A A
		From	NEC	OF THE	<u>1</u> 4 of	%			INCO
		8) S	ec 8.		% of	И			
0 >		W. THE	5351WH S	2	SEMOT SW	4 5	85	4W	MD
	☐ Sec A	tachment No.		1 7 1 N					
	. Name o	f the post o	ffice most oft	b en used by	those living near	the proposed p	point(s) of	diversion:	
6. V	VATER A	VAILAB	ILITY						
a					sis for this projec	t?□YES 교	NO		
	water is	available fo	or the propose	d appropri	sis for this project nonstrate that ther ation:	e is reasonable	likelihood	i that unap	propriated
		<u>e</u> y	Lits 1	Uhe	cond &	Ed. Di	11/2	2/0	122
							-,,,	40	102
	☐ See Atte	achment No.							
b.	Is your p	roject locat	ed on a stream	ı system d	eclared to be fully				
	Control E	Board durin	g your propos	ed season	of diversion?	appropriated by	y the Stat	e Water R	esources
c.	in an ave	rage year o	loes the street			TEO ELIVO			
,	during w	nich month.	s? 🗌 Jan 📙 F	eb 🗆 Mai	t any point downs □ Apr □ May [tif a portion of vo	True Dr. your p	roject? 🗀	YES 2	O If YI
a.	What alte	mate sourc	es of water or	n nami1-11	1 - 1111		Aug 🗀 S	ep ∐ Oct	∐ Nov □
	because v	vater is not	available for a	appropriat	if a portion of your ion? (e.g., percola	ting groundwat	version se	ason must	be exclude
	See Atto	Chronic Ma	an am	Ter,	Necl. 9	TRING	.er, purena	sed water,	etc.)
			_		7				
7. PI	ACE OF	USE							
	USE IS W	TTLIN	0000						
1	(40-acre sub	division)	SECTION*	TOWNS	IIP RANGE	BASE &		IF IRRIGAT	ED
A)E _{% of}	AJE.	8	00	- 10	MERIDIAN	Acres		tly cultivated
1	4 of		0	85	5 4 w	MD	15		ÉS 🗆 NO
		<u> </u>						ΠY	ES 🗆 NO
1	<u> </u>	<u> </u>						ПΥ	ES 🗆 NO
	<u> </u>							□ YI	ES 🗆 NO
	<u> % of</u>	1/4						□ YI	S 🗆 NO
	<u> 4 of</u>	1/4						□ YE	S 🗆 NO
	<u> </u>							/□ YE	s 🗆 NO
	1/4 of	1 /4						□ YE	S 🗆 NO
*Ples	se indicata id					Total:			
□ Se	e Attachment	section is pi No.	rojected with a	"(P)" follo	wing the section nur	nber.			
. PRO)JECT SC	CHEDULI	C						
a. F	Project is:								
Ĺ	ب proposed ∟	. Year cons	struction will	begin:					
Ĺ	⊔ partially	complete. 1	Extent of com	pletion:		-			
-	complete.	Year com	pleted. 1 G	757					
		00111	promu. 1 L						
b. Y	ear of first	use: / 🥆	790	Verm	ter will be used to	_			

1/25/06

SECTION B: MISCELLANEOUS DIVERSION INFORMATION

1. JUSTIFICATION OF AMOUNTS REQUESTED

	a. 🗆 IRRIG	ATION: N	laximum	area to be irrigate	d in any one ye	ar:	acres.	
	CRO	g qC	ACRES	S METHOD C	F IRRIGATION , flooding, etc.)	WATER USE (Acre-feet/Yr.)	SEASON Beginning da	
mediouses	- Flou	reas	6	DRI	P	38	(month & day	(month & day)
predicuses		1	10	SPRU	p ukleg	4	M.A.	967
1107			1	, , , , , ,		†	1117	SCL
2/10			1201	=			•	
-2000	☐ See Attachmer	nt No	1/20					
	Area of do	mestic lawi domestic us	is and gar	dens:ESTI	mated daily use square fe	1-01		gallons per day
	c. STOCK	WATERIN	G: Kind	of stock:		Maximum r	umber:	
	Describe ty	pe of opera	ition:	or stock.		dairy, range, etc.)	-	
	d. 🗆 RECRE	ATIONAL	: Type of	recreation: FI F	(leedlot.)	dairy, range, etc.) uning 🏻 Boating	П	
	a D MINIO	TD 4 r		roorcanon. 🗀 r	isime Li Swiii	uning L Boating	g ⊔ Other_	
	e. MUNIC	ULATION		MAXIMU	AMONTH			
	List for 5-year per Period	iods until use is				Α	NNUAL USE	
		rojan		Average daily use (gallons per capita)	Rate of diversion (cfs)	Average daily use (gallons per capita)	Acre-foot (per capita)	Total
	Present						(per capita)	(acre-feet)
								
								
								-
	See Attachment N	lo			l			
	Month of ma	aximum use	e during y	ear:	Month of	minimum use dur	ing vear	
				e heat controlled:				
	Kate at which	h water is a	pplied to	use:	gpm per acre			
	Tour protecti	ion season	will begin	(month & day)	and end	month & day)		
	g. \square FROST P	KOLECLI	UN: Area	to be frost prote	cted:	net acres		
				use:				
	The frost pro	tection seas	son will b	egin	and end	е		
	h. 🗆 INDUSTE	RIAL: Tym	e of induc	(month & da		(month & day)	_•	
	Basis for dete	rmination	of amoun	t of water needed				
	i. [] MINING:	Name of i	ha alaimi					
	Nature of the	mine:	ne ciann.		Mineral	(s) to be mined: _	☐ Patented [☐ Unpatented
	Type of milli	ng or proce	ssing:		IVINICIAI	(a) to be filled		
	in 4	water will	be discha	rged into				(watercourse)
			_ /4 01 36	,	, R_	,	B. & M.	
	J. □ POWER: Maximum flo	Total head	to be utili	ized: fe	eet	•		
	Maximum the	oretical ho	uie pensio rsenower	canable of being	ts	works (efs x fall + 8		
	· -	(ub u o:	, .o . critcici	icy)	KHOWAITS AT:	% efficiency		
	After use, the	water will	be dischar	rged into		B. & M.		(watercourse)
	74 01	74	or section	1, T	, R	_,B. & M.	FERC No	.:
1	k. FISH AND type that will	WILDLIF be preserv	E PRESE ed or enha	ERVATION AND anced in Item 7a	OR ENHANCE of Section C.	EMENT: List sp	ecific species	and habitat
t	. OTHER: De	escribe use:						
	Basis for deter	mination o	f amount	of water needed:				

b. Diversion	n will he hvr	niamur	g from:_		,uum, pr	pc in unobstru	cted chan	ncl, pipe	through da	m, siphon, wcir	, gate, etc.)
	n win oc oy p	1 / I	r Hom			Sump. o	ffset well	channe	l, reservoir.	ate t	
Pump dis	scharge rate:	Y7		cfs o	r 🗆 gpd	Horsepow	er:	5	Pum	p Efficienc	v·
c. Conduit f											, .
CONDUIT	MAT	TERIAL	to mist i	aterar	CROSS-SE	ream stora				NT	
(pipe or	(type of pipe of	or channe	d lining;	(pip	e diameter, o	r ditch depth	- 1	IGTH		OTAL OR FALL	CAPACIT (cfs, god.c
channel)	indicate if pipe	: is burie	d or not)		d top and bot	tom width)	,,,	/			gpm)
2 00	Clast				(inches or	licet)	 , 		leet	+ or -	المستقرا
rive	MAST	<u>, C</u>			1/2		6	20	40	1 + 1	110
,											
☐ See Attachme	ent No							L			
1 6.											
d. Storage re	servoirs: (Fo	or unde	rground	stora	ge, comple	te and atta	ch forn	a APP	-UGSTC	R)	
RESERVOIR				DAM						RESERVOIR	
NAME OR	Vertical he		Construc		Length	Freeboa	ırd:	Surfa	ce area	Capacity	Maximun
NUMBER	from downst		materi	al	(feet)	dam heigh		whe	n full	(acre-feet)	water depi
	spillway leve					spillway (feet		(ac	res)		(feet)
	1-1					, rect					-
	10		CAK	Th	200	3			2	16	17
		9	PLAS	6	DOAKI						
☐ See Attachme	nt No				-						L
e. Outlet pipe	e: Complete	for stor	age rece	rvoir	having e	oonaoi+ /	10	F ·			
RESERVOIR			-50 1000	. 70112				e-reet	or more.		
NAME	Diagram					OUTLET PIP	E				
OR NUMBER	Diameter (inches)	Lengtl (feet)	- 1	ertical e	Fall: distance betw	man		Head:			Storage:
NOMBER		,			d exit of out		v to entr	stance t	rom spill- outlet pip		elow entranc
			_		(feet)			(feet)			re-feet)
See Attachmer	nt No.										
See Attachmer											
. If water wi	ill be stored a	ingl tke	reservoir	is no	ot at the po	int of diver	sion, tl	ne max	imum ra	ate of diver	sion to off-
. If water wi	ill be stored a	and the	reservoir cfsC	is no Divers	ot at the po	int of diver	sion, tl ige wil	he max l be ma	timum ra	nte of divers	sion to off- g □ Gravi
If water wi	ill be stored a age will be	//-	CIS. L	rvers	ot at the po sion to offs	int of diver	sion, tl ige wil	he max l be ma	imum ra	nte of divers	sion to off- g □ Gravi
If water wing stream store	ill be stored a age will be _	O MON	_ c.s. L VITORI	ING	ion to offs	tream stora	sion, tl	ne max l be ma	imum ra	ate of divers	sion to off- g □ Gravi
If water wi stream stor	ill be stored a rage will be TION ANI ods will you u	O MOI	VITORI	ING water	non to orrs ? Explain.	tream stora	ige wil	l be ma	ide by:	⊟ Pumpinį	sion to off- g Gravi
If water wi stream stor	ill be stored a rage will be TION ANI ods will you to S 15 6	O MOI	VITOR	ING water	? Explain.	Team stora	(C(l be ma	imum rade by:	⊟ Pumpinį	sion to off- g Gravi
If water wistream storester with the stream storester with the storest	ill be stored a rage will be TION ANI ods will you to S 15 6	O MOI	VITOR	ING water	? Explain.	Team stora	(C(l be ma	- Fo	⊟ Pumpinį	sion to off- g □ Gravi
If water wistream storestone Serva. CONSERVA What method DR 19	ill be stored a rage will be _ TION ANI ods will you u S 45 76	O MON	VITOR	ING water The	Explain. MO:	iream stora	(cl-	eN CAI	Fo	L ZA	g □ Gravi
If water wistream store CONSERVA. What method DR 1 P A OUS	ill be stored a rage will be _ TION ANI ods will you u S 15 6	O MOI use to co	NITOR Onserve v	ING water The	Explain.	Tok!	(CC)	eNT	Fo	L 3/4	g □ Gravi
If water wistream store CONSERVA. What method DR 1 P A OUS	ill be stored a rage will be _ TION ANI ods will you u S 45 76	O MOI use to co	NITOR Onserve v	ING water The	Explain.	Tok!	(CC)	eNT	Fo	L 3/4	g □ Gravi
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If water wistream store CONSERVA What method DR 12 A OUS SERVA How will you wasting water	ill be stored a rage will be	O MOI use to co	NITOR Onserve v	ING water The	Explain.	Tok!	(CC)	eNT	Fo	L 3/4	g □ Gravi
If water wistream store CONSERVA. What method DR 1 P A OUS	ill be stored a rage will be	O MOI use to co	NITOR Onserve v	ING water The	Explain.	Tok!	(CC)	eNT	Fo	L 3/4	g □ Gravi
If water wistream store CONSERVA What method Dick is processed. How will you wasting water wasting water approaches the approaches to the store of	TION ANI ds will you u S 15Te A U Se ou monitor your monitor you monitor your moni	D MON use to co end US (end Dour dive Me	NITORION IS A STREET IN TORION IN TRANSPORTANTI IN TORION IN TORIO	ING water The be sureriodi	? Explain. — MO: Te you are ic sampling	within the	limits (descr	ext CA1 of your ibe)	For water r	ight and you	g Gravi
If water wistream store CONSERVA What method Dick is processed. How will you wasting water wasting water applied to the applied of the process of the application of the process of the application. If NO, I	TION ANI ds will you t S 15Te AU Se ou monitor your er? Weir ACCESS oplicant own a do	O MOR use to co	NITORION IS A STATE OF THE STAT	ING water The the tre the	PEXPLAIN.	within the	limits (descr	cAu of your ibe)	water r	ight and you	u are not
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2. DIVERSION AND DISTRIBUTION METHOD

		water diversion	and use, if appli	cable.		
	c.	and built	bounday or gracit	istrations, permits, or licension?	ises located in the p	proposed place of use or that
		☐ See Attachment	No.	<u>, </u>		
6	Α	re you presently	CES OF WATE using, or do you i □ Yes □ No	ntend to use purchased	iter or water suppli	ed by contract in connection
7	The local raise of go (1) jure (4) mo	nge, section and ca a U.S.G.S. quadrods stores or thro appropriating mainstrain of the E	of process your ap se. You must incl quarter/quarter sec angle/topographic ough the Internet a ore than three cfs Division of Safety ore than 1000 acr	ction of (1) the proposed pic c map of your project area at http://topomaps.usgs.gov by direct diversion, (2) co	ation form that clear pints of diversion a is preferred, and can. A certified engine instructing a dam we	ng the source of water and arly indicates the township, and (2) the place of use. A copy on be obtained from sporting seering map is required when hich will be under the ce area in excess of ten acres or e the instruction booklet for
		SEC	CTION C: I	ENVIRONMENT	AL INFORM	<u>IATION</u>
En pre det ass que	viror epare termi locial estion	nmental Quality A d for your projec ned to be respons ted with the envir	Act (CEQA). Thing to a contract of the contrac	s form is not a CEOA documents the made of who is read the CEOA document, the ion and preparation of the thing with this application.	ent prepared in cor ment. If a CEQA esponsible for its prapplicant will be re	arces Control Board (SWRCB) inpliance with the California document has not yet been reparation. If the SWRCB is required to pay all costs in Please answer the following we been conducted regarding
1.	CC	OUNTY PERM	IITS			
	и.	Person contacted	mry planning or p	ublic works department an	d provide the follow	wing information:
		Dobarnations.		Dat	e or contact: Telephone:	()
		- Oracing perm	pesignation: permits required fr	or your project? YES [NO IENEO I	eck appropriate box below: Change of zoning
	1.	Have you obtaine f YES, provide a See Attachment No.	complete copy of	red permits described abov each permit obtained.	e? □ YES □ NC	
2.	a. ·	Check any addition of the control of	onal state or feder y Regulatory Cor of Engineers commission C	ND REQUIREMENTS al permits required for you mission □ U.S. Forest S U.S. Natural Res. Conservalif. Dept. of Water Resour State Reclamation Board	ur project: ervice U.S. But ation Service U.S.	reau of Land Management alif. Dept. of Fish and Game of Dams)
				nit is required, provide the		
		AGENCY	PERMIT TYPE	PERSON(S) CONTACTED	CONTACT DATE	TELEPHONE NO.
	_					

☐ See Attachment No.

		If YES, explain: NO
		□ Sec Attachment No.
	d.	Have you contacted the California Department of Fish and Game concerning your project? YES NO
3.	EN	VIRONMENTAL DOCUMENTS
	a. I	das any California public agency prepared an apprison and the
	C	determination adopted by the California public agency. Public agency.
,	u. [f NO, check the appropriate box and explain below, if necessary: The applicant is a Colifornia public appropriate box if necessary:
		The applicant is a California public agency and will be preparing the environmental document.* I expect that the SWRCB will be preparing the environmental document.**
		- 1 expect that a Calliornia number agency other than the Ct-t- 17 . D
		preparing the environmental document.* Public agency:
	#	Note: When completed submit a convert to C.
		Note: When completed, submit a copy of the <u>final</u> environmental document (including notice of determination) or notice of exemption to the SWRCB, Division of Water Rights. Processing of your application cannot proceed until these documents are submitted.
	#= ±	Note: CEQA requires that the SWRCB, as Lead Agency, prepare the environmental document. The information contained in the environmental document must be developed by the applicant and at the applicant's expense under the direction of the SWRCB, Division of Water Rights.
W a.	W	TE/WASTEWATER
	W se □	TE/WASTEWATER fill your project, during construction or operation, (1) generate waste or wastewater containing such things as wage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation
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	W se □ If	TE/WASTEWATER Fill your project, during construction or operation, (1) generate waste or wastewater containing such things as wage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation YES PNO YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality Control of the following information (See instruction booklet for address and telephone no.):
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a. b. c. A.I. a. b. c.	Will See See See See See See See See See S	TE/WASTEWATER Fill your project, during construction or operation, (1) generate waste or wastewater containing such things as wage, industrial chemicals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation
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SECTION D: SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an \$850 check for the environmental review fee, payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. Your application will be returned to you if it is not accompanied by all required fees.

SECTION E: DECLARATION AND SIGNATURE

I declare under penalty of perjury that all information provided is true and correct to the best of my knowledge and belief. I authorize my agent, if I have designated one above, to act on my behalf regarding this water right application.

Signature of Applicant Dev N.E. 9/8/04'

Signature of Co-Applicant (if any)

Title or Relationship

Date



"APPLICATION TO APPROPRIATE WATER" CHECKLIST

Before you submit your application, be sure to:

- Answer each question completely in Sections A, B, and C.
- Number and include all necessary attachments.
- Include a legible map that meets the requirements discussed in the instruction booklet (Item B6).
- Include the Water Availability Analysis or sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation (Item A6).
- □ Include three complete sets of color photographs of the project site (Item C6).
- Enclose a check for the required fee, payable to the Division of Water Rights, as specified in Section D.
- Enclose a \$850 check for the environmental review fee, payable to the Department of Fish and Game, as specified in Section D.
- Sign and date the application in Section E.

Send the original and one copy of the entire application to:

State Water Resources Control Board Division of Water Rights P.O. Box 2000 Sacramento, CA 95812-2000

Environmental Information For Supplemental Water Rights Application Manzzanini Nursery

Project Description:

Project is shown on USGS Quad as Dearborn Park and consists of 29 acres acquired in 1970. Irrigation is supplied to 6 acres of green houses and 9 cultivated acres. Water is supplied from a 16 acre ft pond and sediment basin, well and spring system through plastic pipes. Water use is year round for flower production since 1950's. The supplemental use application will not increase the current amount of water use.

Environmental Setting:

No native fish habitat presently exists on the property. Red legged frog and S.F. garter snake habitat exists around the artificial pond system. The pond system and immediate channel have been extensively modified over a >50 year history of farming use and residential construction. The drainage system presently is approximately 1800 feet long on the Armanino property and consists of open channels, a small sediment filled settling basin, a partially filled ~ 1.8 surface acre reservoir, steel culverts and a concrete lined culvert below the ownership under Pescadero Road (County). Above the ownership are culverts under access roads to neighboring houses. The banks of channel sections are lined with stinging nettles, berries, ferns, sedges, oak trees, buckeye and willows at varying proportions. Some areas have trash and debris left from past projects or dumped as waste.

Upland areas above the pond predominantly contain live oak (*Quercus agrifolia*), buckeye (*Aesculus californica*), and redwood (*Sequoia sempervirons*). In the riparian area the predominant species are willow (*Salix spp*). Pond species are cat-tail (*Typha latifolia*), cyperus (*Cyperus eragrostis*) and pondweed (*Polygonum spp*) and several species of rush. Other wetland species such as horsetail and fern occur on the margins.

Potential Changes to Setting:

No change from past water use or construction hence no changes will occur. No change will occur to downstream species.



State Water Resources Contr | Board

Division of Water Rights

1001 I Street, 14th Floor • Sacramento, California 95814 • (916) 341-5300 Mailing Address: P.O. Box 2000 • Sacramento, California • 95812-2000 FAX (916) 341-5400 • Web Site Address: http://www.swrcb.ca.gov Division of Water Rights: http://www.waterrights.ca.gov



MEMORANDUM

TO:

FILE

Ed Dito

FROM:

Ed Dito

Senior Water Resources Control Engineer

DATE:

OCT 2 1 2002

SUBJECT:

WATER AVAILABILITY ANALYSIS, ARMANINO APPLICATION 30205,

WEEKS CREEK, PESCADERO CREEK WATERSHED,

SAN MATEO COUNTY

General. The purpose of this memo is to summarize the results of the water availability analysis prepared for the Armanino Application 30205 located on Weeks Creek, tributary to Pescadero Creek in San Mateo County. This analysis has been prepared in accordance with Water Code sections 1243, 1243.5, 1260(k) and 1375(d) and in accordance the draft guidelines prepared by the National Marine Fisheries Service (NMFS) and the Department of Fish and Game (DFG) dated June 17, 2002, entitled: Guidelines for Maintaining Instream Flows to Protect Fisheries Resources Downstream of Water Diversions in Mid-California Coastal Streams. The primary purposes of this analysis are:

- to determine the percentage impairment to the winter runoff in order to assess the cumulative impacts to anadromous fishery resources within the watershed,
- to determine the minimum fish bypass requirement, and
- to determine whether there is sufficient water available for appropriation without causing injury to downstream water users with prior vested rights

Attachment 1 is a location map that shows the location of the Pescadero Creek watershed, Weeks Creek, Armanino's reservoir, and the location of all recorded water rights within the watershed. Attachment 2 is a U. S. Geological Survey (USGS) topographic map that shows the location of Armanino's existing reservoir on Weeks Creek and the drainage area tributary to the reservoir. Attachment 3 provides a summary of streamflow data for the USGS gage on Pescadero Creek. Attachment 4 provides a summary of existing and proposed diversions within the Pescadero Creek watershed that are located upstream of Weeks Creek.

Application/Project. The original application, dated October 17, 1992, requested a water right permit for the storage of 9 acre-feet per annum (afa) in an existing, on-stream reservoir, with a requested diversion season of December 1 through April 30. Water would be used for irrigation of 9 acres of flowers grown for commercial purposes.

In response to the Division's letter dated March 23, 1999, Armanino has agreed to modify his project consistent with terms designed to protect anadromous fishery resources, specifically, a limitation on the season of diversion, a limitation on the rate of diversion to off-stream storage, and providing a minimum fish bypass flow. Armanino has also modified the project and now proposes to construct two small off-stream reservoirs that would store a total of 9 acre-feet.

Points Under Consideration. For the purpose of this analysis, the winter runoff, diversions, and percentage impairment of the unimpaired winter runoff were determined at five locations:

- Weeks Creek, at Armanino's point of diversion.
- Weeks Creek, at the mouth of Weeks Creek.
- Pescadero Creek, immediately below Weeks Creek.
- Pescadero Creek, at the marsh.
- Pescadero Creek, at the mouth (i.e., the Pacific Ocean).

Runoff – **Weeks Creek.** The average annual unimpaired runoff within Weeks Creek was determined using the USGS Rationale Runoff Method¹ and the USGS coefficients, using the equation shown below:

 $Q = k \times A \times \%$, where:

Q = Average annual winter runoff from December 15 to March 31.

K = USGS runoff coefficent

A = Area, in acres

% = Percentage of runoff that occurs from Deecember 15 to March 31

Winter Runoff at Armanino's POD

$$Q = 10/12 \times 140 \times 0.73 = 85 \text{ afa}$$

Winter Runoff at Mouth of Weeks Creek

$$Q = 10/12 \times 161 \times 0.73 = 98 \text{ afa}$$

Runoff – Pescadero Creek. The winter runoff in Pescadero Creek is based on USGS gage data. As shown on Attachment 1, the USGS gage is located immediately downstream of Weeks Creek, consequently, the runoff in Pescadero Creek at the mouth of Weeks Creek is virtually identical to the runoff as measured at the USGS gage. Pescadero Creek has an average annual winter runoff of 20,873 AF for the winter period (December 15 to March1). The estimated

¹ U. S. Geological Survey, *Mean Annual Runoff in the San Francisco Bay Region, California*, (MF-613). S. E. Rantz, 1974.

[&]quot;The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption.

For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at http://www.swrcb.ca.gov"

average annual runoff at downstream locations in Pescadero Creek is described in a separate memo to file². Those values are shown in Table 1 below.

Diversions – Weeks Creek. Review of the Division's files indicates that Armanino is the only diverter of record on Weeks Creek. Consequently, the diversions that occur between October 1 and March 31 would be 9 AF, the amount of water requested in Armanino's application.

Diversions – Pescadero Creek. Attachment 4 provides a summary of existing and proposed winter diversions within the Pescadero Creek watershed that are located upstream of the USGS gage and Weeks Creek. Estimated winter diversions were determined based on review of information contained in the Division's WRIMS (Water Rights Information Management System). As indicated on Attachment 4, there are a total of 235 afa of diversions during the winter season. Table 1 below provides a summary of the diversions at the downstream locations in Pescadero Creek. The memo to file relating to the water availability analysis for the Pescadero Creek watershed provides a description of those diversions.

NMFS/DFG Percentage Impairment Index. The NMFS/DFG draft guidelines recommend that the cumulative flow impairment index (CFII) be calculated based on the diversions that would occur between October 1 and March 31 and the average annual unimpaired winter runoff that would occur between December 15 and March 31. The NMFS/DFG CFII provides an indication of the potential cumulative impacts to anadromous fishery resources. Table 1 below provides a summary of the runoff, diversions and the NMFS/DFG CFII for the points under consideration in this analysis. Diversions and runoff within the Pescadero Creek watershed, downstream of Weeks Creek, are described in the memo to file relating to the water availability analysis for Pescadero Creek watershed.

Table 1
NMFS/DFG Percentage Impairment of Winter Flow

	Diversions	Runoff	Percent
Location	(afa)	(afa)	Impairment
Weeks Creek @ Armanino POD	9	85	10.6 %
Weeks Creek @ mouth	9	98	9.2 %
Pescadero Creek below Weeks Creek.	235	20,873	1.1 %
Pescadero Creek above marsh	542	25,613	2.1 %
Pescadero Creek @ ocean	2,784	37,903	7.3 %

Discussion of Percentage Impairment Approval of Armanino's application/project would authorize the off-stream storage of 9 afa and would result in a 10.6 % reduction in the unimpaired winter runoff in Weeks Creek at Armanino's point of diversion. All existing and

² See memo to file relating to the water availability analysis for the Pescadero Creek Watershed.

[&]quot;The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at http://www.swrcb.ca.gov"

proposed diversions, including Armanino's proposed diversion of 9 afa, would result in a 1.1 % reduction in the winter runoff in Pescadero Creek, immediately below Weeks Creek, and a 2.1 % reduction in winter runoff at the mouth of Pescadero Creek.

Determination of Bypass Flow The NMFS/DFG draft guidelines recommend that a minimum bypass flow be provided that is equivalent to the February median daily unimpaired flow. Since there is no streamflow gage data for Weeks Creek and no rainfall gages in the immediate area, the bypass flow was determined based on comparison to data available at the USGS gage on Pescadero Creek, using the equation shown below. This method assumes that the flow regime for Weeks Creek would be identical to the flow regime of Pescadero Creek, as measured at the USGS gage.

$$\begin{array}{cccc} Q_{bypass} = & Q_{feb} & x & Q_{\underline{pod}} & & \textit{where} \\ & & Q_{gage} & & & \end{array}$$

Q_{bypass} = February median daily bypass flow at Armanino's POD

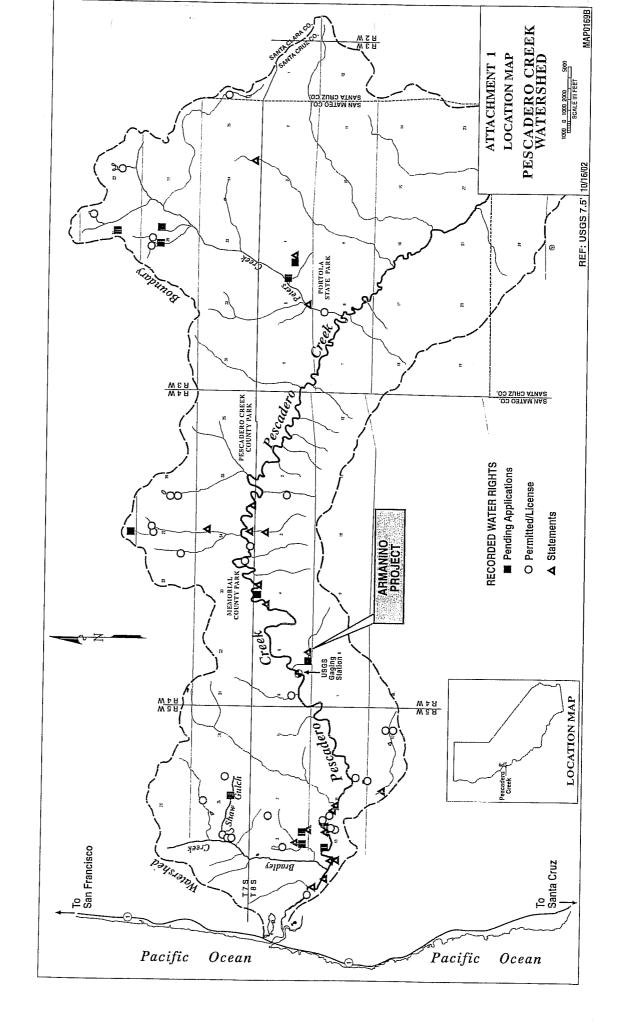
 Q_{feb} = February median daily flow at USGS gage (34 cfs)

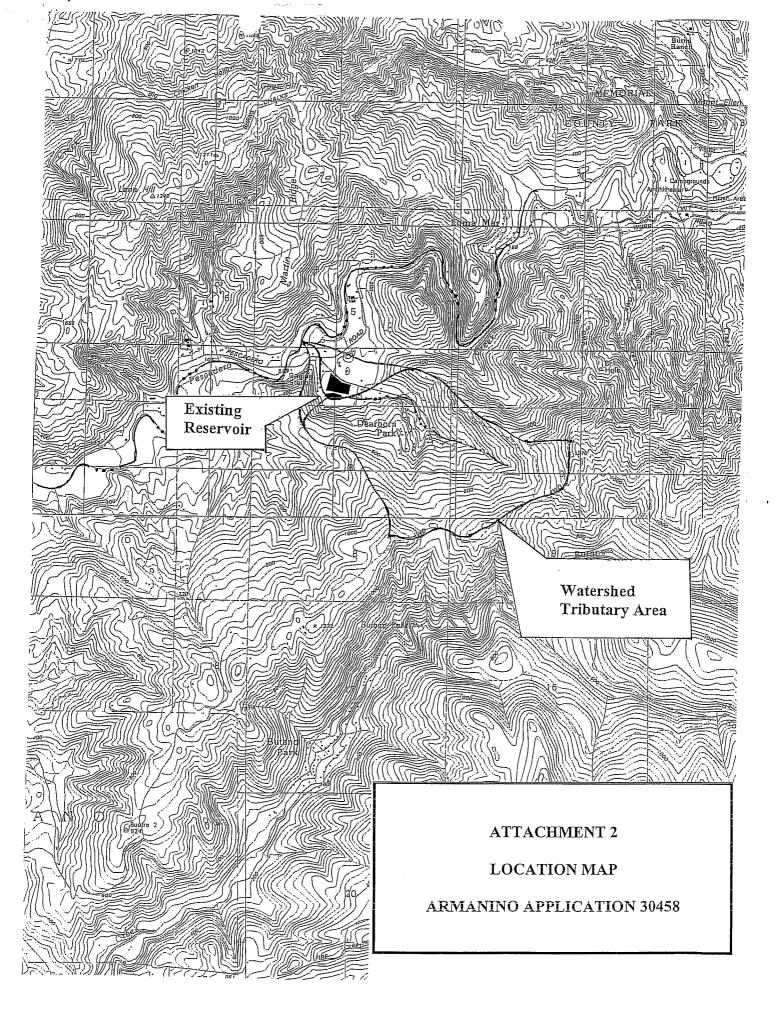
 Q_{pod} = Winter runoff at Armanino's POD (138 af) Q_{gage} = Winter runoff at the USGS gage (20,873 af)

$$Q = 34 \times \frac{85}{20,873} = 0.14 \text{ cfs}$$

Impact on Prior Rights As indicated above, Armanino would only be allowed to divert 9 afa to storage during the peak winter runoff period, when there is substantial flow in the Pescadero Creek. As indicated on Figure 1, there are relatively few water diverters on Pescadero Creek, downstream of Weeks Creek. Most of those water users would divert water from Pescadero Creek during the summer months for irrigation of crops. Armanino's proposed diversion of 9 afa during the peak winter runoff season would not have any measurable effect on the average winter runoff of 20,000 afa; consequently, Armanino's diversion would not have any significant impact to downstream water users with prior vested rights.

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ATTACHMENT 3

SUMMARY OF USGS FLOW DATA PESCADERO CREEK GAGE

Flow Estimates based on Pescadero Crk

Watershed Area above point of interest (mi ²) =	59.8 From GIS map
Area above Pescadero Creek gage (mi²) =	45.9 From USGS gage records

Flow Statistics at Pescadero Creek Gage	Estimated Value	Units
Average Annual Streamflow at Pescadero Creek Gage =	28408	AF
% Streamflow Dec 15 - Mar 31 =	73%	
Avg Streamflow occuring Dec 15 - Mar 31 =	20873	AF
% Streamflow occuring Oct 1 - Mar 31 =	81%	
Avg Streamflow occuring Oct 1 - Mar 31 =	22992	AF
February Median Flow =	34	cfs
15% of 20% Exceedance Flow =	17	cfs

Estimates @ Point of Interest	Estimated Value	Units
February median flow (area-prorated only)		cfs
Area between gage and POI	13.9	mi ²
Precip between gage and POI	30	in
Area above POI	59.8	mi ²
Precip above gage	40	in
Mean annual flow at POI (gage plus additional area)	34,840	acre-feet
Dec 15 - Mar 31 flow at POI	25,599	acre-feet
Oct 1 - Mar 31 flow at POI	28,198	acre-feet

Attachment 4 Diversions Upstream of the USGS Gage

			Direct D	iversion	Storage		Qty.
App. No	Name	POU	Season	Rate	Season	Amt.	AF
A04104	CA DP&R	BDIS	11/1-6/15	0.028 cfs		0	8
A06250	Mid Penn. Open Space	BDIS	12/1-5/15	0.03 cfs		0	7
A08828	San Mateo Co.	DE	1/1-12/31	0.068 cfs		0	29
A13316	Mid Penn. Open Space	W		0	10/1-5/1	44	44
A16784	Mid Penn. Open Space	W		0	11/1-5/1	30	30
A20995	San Mateo Co.	R	5/15-9/30	7000 gpd	5/15-6/30	5	0
A22150	Gray						10
A23904	SF YMCA	DERS		0	12/1-6/1	20	20
A23905	SF YMCA	DERS		. 0	12/1-6/1	25	25
A24192	Amer. Baptist Church	D	1/1-12/31	0.42 cfs		0	12
A30205	Armanino	I		0	12/15-3/31	9	9
A30458	PIAMWC	D	12/15-3/31	0.025 cfs	12/15-3/31	2	7
A31030	Mid Penn. Open Space	SW		0	10/1-5/30	4	4
A31031	Wyant Trust	D		0	1/1-3/31	3	3
D29717	Jikoji	D		0	1/1-3/31	2	2
D30184	Watt	D		0	1/1-3/31	2	2
D31099	Echo Valley Coop.	D	1/1-12/31	1525 gpd		0	2
S04385	Loma Mar MW&IC	D	1/1-12/31	0.025 cfs		0	9
S09287	CA DP&R	D	1/1-12/31	19200gpd		0	5
S11560	Werder	D	1/1-12/31	n/a		0	1
S13825	Sherburne Slack	D	1/1-12/31	192 gpd		0	1
S14570	PIAMWC	D	1/1-12/31	0.025 cfs			5
						Total	235